	A 11 (1 A)	1.0
· ·	Application No.	Applicant(s)
Nation of Allowability	09/830,647	ARAI ET AL.
Notice of Allowability	Examiner	Art Unit
	Christopher H Yaen	1642
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Right of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>12/10/2003</u> .		
2. ☑ The allowed claim(s) is/are <u>1,3,5-7 and 10-30</u> .		
3. The drawings filed on are accepted by the Examiner	:	
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 	been received. been received in Application No. <u>Quantors</u> cuments have been received in this of this communication to file a reply ENT of this application. tted. Note the attached EXAMINER is reason(s) why the oath or declarate the submitted.	r national stage application from the complying with the requirements R'S AMENDMENT or NOTICE OF ation is deficient.
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	one ratem Diaming review (1.10	o to, allaonoa
(b) including changes required by the attached Examiner's Paper No./Mail Date	: Amendment / Comment or in the 0	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 8), 7. ☑ Examiner's Amend	ite
	GARY NICKOL PRIMARY EXAMINER	Christopher Yaen Art Unit 1642

Art Unit: 1642

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Warren Cheek on 05 March 2004.

The claims of this application have been amended as follows:

Claim 1 (Currently Amended) An isolated human protein comprising the an amino acid sequence of SEQ ID NO: 1.

Claim 2 (Cancelled)

Claim 3 (Currently Amended) An isolated human protein comprising the an amino acid sequence of SEQ ID NO: 2.

Claim 4 (Cancelled)

Claim 5 (Previously Presented) An isolated CDNA encoding the human protein of claim 1 or 3.

Claim 6 (Currently Amended) The CDNA of claim 5, which comprises the-a nucleotide sequence of SEQ ID NO: 3.

Claim 7 (Previously Presented) The CDNA of claim 5, which comprises a nucleotide sequence of SEQ ID NO: 4.

Claim 8 (Cancelled)

Art Unit: 1642

Claim 9 (Cancelled)

Claim 10 (Previously Presented) A recombinant vector comprising the cDNA of claim 6.

Claim 11 (Previously Presented) A recombinant vector comprising the cDNA of claim 7.

Claim 12 (Previously Presented) An isolated monoclonal antibody which binds specifically against the human protein of claim 1.

Claim 13 (Previously Presented) An isolated monoclonal antibody which binds specifically against the human protein of claim 3.

Claim 14 (Currently Amended) A method for promoting the proliferation of cells <u>in vitro</u>, which comprises introducing the CDNA of claim 6 together with an expression regulatory sequence into the cells.

Claim 15 (Currently Amended) A method for promoting the proliferation of cells in vitro, which comprises introducing the CDNA of claim 7 together with an expression regulatory sequence into the cells.

Claim 16 (Currently Amended) A method for suppressing the proliferation of cells in vitro, which comprises introducing the antibody of claim 12 into the cells.

Claim 17 (Currently Amended) A method for suppressing the proliferation of cells <u>in</u> <u>vitro</u>, which comprises introducing the antibody of claim 13 into the cells.

Claim 18 (Previously Presented) An isolated polypeptide consisting of an amino acid sequence of SED ID NO: 1.

Claim 19 (Previously Presented) An isolated polypeptide consisting of an amino acid sequence of SED ID NO: 2.

Art Unit: 1642

Claim 20 (Previously Presented) An isolated polynucleotide encoding the polypeptide of claim 18 or 19.

Claim 21 (Currently Amended) The polynucleotide of claim 20, which comprises the an nucleotide sequence of SEQ ID NO: 3.

Claim 22 (Currently Amended) The polynucleotide of claim 20, which comprises the an uncleotide sequence of SEQ ID NO: 4.

Claim 23 (Previously Presented) A recombinant vector comprising the polynucleotide of claim 21.

Claim 24 (Previously Presented) A recombinant vector comprising the polynucleotide of claim 22.

Claim 25 (Previously Presented) An isolated monoclonal antibody which binds specifically against the polypeptide of claim 18.

Claim 26 (Previously Presented) An isolated monoclonal antibody which binds specifically against the polypeptide of claim 19.

Claim 27 (Currently Amended) A method for promoting the proliferation of cells <u>in vitro</u>, which comprises introducing the polynucleotide of claim 21 together with an expression regulatory sequence into the cells.

Claim 28 (Currently Amended) A method for promoting the proliferation of cells <u>in vitro</u>, which comprises introducing the polynucleotide of claim 22 together with an expression regulatory sequence into the cells.

Claim 29 (Currently Amended) A method for suppressing the proliferation of cells in vitro, which comprises introducing the antibody of claim 25 into the cells.

Claim 30 (Currently Amended) A method for suppressing the proliferation of cells <u>in</u> vitro, which comprises introducing the antibody of claim 26 into the cells.

All rejections and or objections are withdrawn in view of the applicant's amendments and arguments thereto as set forth in the paper filed 12/10/2003.

All post allowance correspondence (including formal drawings) concerning this application must be mailed to the following address:

Box Issue Fee Commissioner for Patents Washington, DC 20231

Alternatively, faxes may be sent to the Office of Patent Publication at (703)-308-5083.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher H Yaen whose telephone number is 571-272-0838. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Yaen Art Unit 1642 March 5, 2004

GARY NICKOL PRIMARY EXAMINED

Art Unit: 1642

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Warren Cheek on 05 March 2004.

The claims of this application have been amended as follows:

Claim 1 (Currently Amended) An isolated human protein comprising the an amino acid sequence of SEQ ID NO: 1.

Claim 2 (Cancelled)

Claim (Currently Amended) An isolated human protein comprising the an amino acid sequence of SEQ ID NO: 2.

Claim 4 (Cancelled)

Claim 5 (Previously Presented) An isolated CDNA encoding the human protein of claim 1 or 3.

Claim 6 (Currently Amended) The CDNA of claim 5, which comprises the a nucleotide sequence of SEQ ID NO: 3.

Claim 7 (Previously Presented) The CDNA of claim 5, which comprises a nucleotide sequence of SEQ ID NO: 4.

Claim 8 (Cancelled)

Art Unit: 1642

Claim 9 (Cancelled)

Claim 16 (Previously Presented) A recombinant vector comprising the cDNA of claim 6.

Claim 1/2 (Previously Presented) A recombinant vector comprising the cDNA of claim 7.

Claim 12 (Previously Presented) An isolated monoclonal antibody which binds specifically against the human protein of claim 1.

Claim 18 (Previously Presented) An isolated monoclonal antibody which binds specifically against the human protein of claim 3.

Claim 14 (Currently Amended) A method for promoting the proliferation of cells in vitro, which comprises introducing the CDNA of claim 6 together with an expression regulatory sequence into the cells.

Claim 16 (Currently Amended) A method for promoting the proliferation of cells in vitro, which comprises introducing the CDNA of claim 7 together with an expression regulatory sequence into the cells.

Claim 16 (Currently Amended) A method for suppressing the proliferation of cells in vitro, which comprises introducing the antibody of claim 12 into the cells.

Claim (Currently Amended) A method for suppressing the proliferation of cells in vitro, which comprises introducing the antibody of claim into the cells.

Claim 18 (Previously Presented) An isolated polypeptide consisting of an amino acid sequence of SED ID NO: 1.

Claim 19 (Previously Presented) An isolated polypeptide consisting of an amino acid sequence of SED ID NO: 2.

Art Unit: 1642

10

Claim 20 (Previously Presented) An isolated polynucleotide encoding the polypeptide of 3 4 claim 18 or 19.

Claim 21 (Currently Amended) The polynucleotide of claim 20, which comprises the anucleotide sequence of SEQ ID NO: 3.

Claim 22 (Currently Amended) The polynucleotide of claim 20, which comprises the an nucleotide sequence of SEQ ID NO: 4.

Claim 23 (Previously Presented) A recombinant vector comprising the polynucleotide of claim 21.

Claim 24 (Previously Presented) A recombinant vector comprising the polynucleotide of claim 22.

Claim 25 (Previously Presented) An isolated monoclonal antibody which binds specifically against the polypeptide of claim 18.

Claim 26 (Previously Presented) An isolated monoclonal antibody which binds specifically against the polypeptide of claim 16.

Claim 27 (Currently Amended) A method for promoting the proliferation of cells in vitro, which comprises introducing the polynucleotide of claim 21 together with an expression regulatory sequence into the cells.

Claim 28 (Currently Amended) A method for promoting the proliferation of cells in vitro, which comprises introducing the polynucleotide of claim 22 together with an expression regulatory sequence into the cells.

Claim 29 (Currently Amended) A method for suppressing the proliferation of cells in vitro, which comprises introducing the antibody of claim 25 into the cells.

Art Unit: 1642

26

Claim 20 (Currently Amended) A method for suppressing the proliferation of cells in vitro, which comprises introducing the antibody of claim 26 into the cells.

All rejections and or objections are withdrawn in view of the applicant's amendments and arguments thereto as set forth in the paper filed 12/10/2003.

All post allowance correspondence (including formal drawings) concerning this application must be mailed to the following address:

Box Issue Fee Commissioner for Patents Washington, DC 20231

Alternatively, faxes may be sent to the Office of Patent Publication at (703)-308-5083.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher H Yaen whose telephone number is 571-272-0838. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/830,647 Page 6

Art Unit: 1642

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Yaen Art Unit 1642 March 5, 2004